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THOMAS A. MORINELLI, ERIC L. FINLEY, AYAD A. JAFFA, DAVID T. KURTZ and MICHAEL E. ULLIAN — 1823 Tyrosine phosphorylation of phosphatidylinositol 3-kinase and of the thromboxane A_2 (TXA_2) receptor by the TXA_2 mimetic I-BOP in A7r5 cells

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BAUKELIEN VAN TRIEST, HERBERT M. PINEDO, FRANK TELLMAN, CLASINA L. VAN DER WILT, GERRIT JANSEN and GODEFRIDUS J. PETERS — 1855 Cross-resistance to antifolates in multidrug resistant cell lines with P-glycoprotein or multidrug resistance protein expression

EDEM NUGLOZEH and ANDRÉE G. ROBERGE — 1867 Dietary calcium supplementation and dopamine-β-hydroxylase in spontaneously hypertensive rats

MELISSA MEREDITH, GUODONG LI and STEWART METZ — 1873 Inhibition of calcium-induced insulin secretion from intact HIT-T15 or INS-1 β cells by GTP depletion

HIROAKI JIKIHARA, STUART HANDWERGER and ALAN M. POISNER — 1883 β-Adrenergic regulation of renin expression in differentiated U-937 monocytic cells

RUDOLFS K. ZALUPS and LAWRENCE H. LASH — 1889 Binding of mercury in renal brush-border and basolateral membrane vesicles: Implications of cysteine conjugate of mercury involved in the luminal uptake of inorganic mercury in the kidney

Waldemar Pruzanski, Eva Stefanski, Peter Vadas and Nungavaram S. Ramamurthy	1901	Inhibition of extracellular release of proinflammatory secretory phospholipase A_2 ($sPLA_2$) by sulfasalazine: A novel mechanism of anti-inflammatory activity
Gamini Chandrasena, Richard Giltay, Shivakuman D. Patil, Aimee Bakken and Jashvant D. Unadkat	1909	Functional expression of human intestinal Na^+-dependent and Na^+-independent nucleoside transporters in *Xenopus laevis* oocytes
J. Javier Fernández-Ruiz, Raul M. Muñoz, Julián Romero, M. Angeles Villanua, Alexandrox Makriyannis and José A. Ramos	1919	Time course of the effects of different cannabimimetics on prolactin and gonadotrophin secretions: Evidence for the presence of CB1 receptors in hypothalamic structures and their involvement in the effects of cannabimimetics
Mitsuhiro Nakamura, Shigeru Nakashima, Yoshihiro Katagiri and Yoshinori Nozawa	1929	Effect of wortmannin and 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran—one (LY294002) on *N*-formyl-methionyl-leucyl-phenylalanine-induced phospholipase D activation in differentiated HL60 cells: Possible involvement of phosphatidylinositol 3-kinase in phospholipase D activation

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Toyoko Hiroi, Susumu Imaoka, Toshio Chow, Yoshiyasu Yabusaki and Yoshihiko Funae	1937	Specific binding of 1-[2-(diphenylmethoxy)ethyl]-4-(3-phenyl propyl) piperazine (GBR-12935), an inhibitor of dopamine transporter, to human CYP2D6
Hajime Inoue, Hideo Ohshima, Hirojuki Kono, Miwa Yamanaka, Takako Kubota, Masaki Aihara, Tomoko Hiroi, Nagasumi Yago and Hirotomo Ishida	1941	Suppressive effects of tranilast on the expression of inducible cyclooxygenase (COX2) in interleukin-1β-stimulated fibroblasts
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